the case of the planet Mars alone, our astronomers have really established the existence of a similarity of physical condition, which gives us the strongest posi-tive grounds for inferring that even such res as we now are could somehow make shift to live there, though, of course not without a certain amount of preminary discomfort while we were trying to acclimatize ourselves. Mr. Proctor graphic account of these similarities, and his delightful chart of the planet's continents and waters, suggests to us to discuss one or two of the known differences of condition, in their relation to the probable results upon the history and civilization of the Martialists.

First, let us briefly say that the Martialists have a world less in area than one of our hemispheres to explore; that, in spite of this, it has not much less land than the greatest seas are in the neighborhood of the cold south pole of Mars, which has climate far severer than the north pole; there is a world of perpetual snow at each Martial pole, which can be seen to diminish as the summer returns to each hemisphere, and to increase again as winter comes back; and, in spite of the preponderance of land, a vast deal of rain falls on Mars, especially in winter, clouds often hiding the configuration of the continents from our astronomers, and the suddenly dispersing, and leaving the continents clear again -a clearing up which usually happens about the hour of noon-in Mars, just as our weather so often changes as the sun ses the meridian; that the length of the Martial year is nearly twice as long as ours; and that the force of gravity on Mars is much less than half what it is with us, so that, as Mr. Proctor expresses it, "a Daniel Lambert on Mars would be able to eap easily to a height of five or six feet, and he could run faster than the best of our terrestrial athletes."

general result, then, of the telescopical observations on Mars, and the de-duced calculations, may be said to be: (1.) With certainty, that the weight of bjects of the same mass in Mars is much less than half what it is here, and that consequently there would be a far greater range of activity for creatures of the same size, that falls would be less dangerous, that the strain on walls or columns, or any other supports, would be much less; and that, therefore, roofs, arches and structures of that kind might be easily set up on a much larger scale by creatures of equal skill with ourselves; but, on the other hand, that friction, which is more or proportional to pressure, and, in the case of piles of e, in the case of piles of nes, etc., to weight, would be far less than on the surface of the earth, so that any violent lateral disturbances, such as ricanes, would exert a still greater of fect than on our earth in destroying such structures, since there would be less solidity and, therefore, less fractional resistance

to overcome in overturning them. Again, the vastly diminished weight of given ses would give a very great advantage to all kinds of engines of draught. Car riages, carts and railways would attain a vastly greater speed than on our earth, and the sledging on the snow-fields of Mars might be as swift as the wind. All these inferences are matters of certainty, so far But (2) there seems a very great proba

bility that the atmosphere of Mars is re-latively considerable denser than ours, since at a distance from the sun so much greater that the planet probably receives, directly, less than half the light and hea we receive. There seems no sign of any arctic severity, and clear evidence that the atmosphere holds vast quantities of watery vapor, even in winter, which points to temperature much higher than our world would have if removed to the same distance from the sun, especially when one considers how much less water to supply vapor, and how much greater a proportion of land than the earth Mars contains. Again, the rapidity with which storms clear off from a big continent, and leave the outlines clearly marked after being all enveloped in mist before, seems to show the existence of very rapid currents of air and this no doubt the greater inclination of the axis of Mars, giving a greater range to the northward and southward journeys of the sun, would promote. Putting these facts together, then, we should infer that the atmosphere of Mars is, in proportion, heavier than that of the earth, and therefore a warmer envelope for the planet; that its winds are more viclent, and that the great difficulty of the architects of the planet is more likely to be the strengthening of their structures against lateral forces hurricanes, for instance-than against the strain of gravity. Their outer walls would have to be comparatively much more solid; their difficulty in rising broad arches and spacious roofs would be much less; and locomotion on Mars must be more easy and speedy, ceteris paribus, than

If this be so, we may see a fitness in the much larger proportion of land in the planet, and the comparative narrowness and smallness of the s as. Probably life in Mars is faster than it is here. It is very improbable that the civilization of the different continents there, is divided by peri-ods extending over two thousand years. There is probably no one of the great con-tinental tracts of Mars known there as Mars, as on the earth, they have probably succeeded each other faster, having a less surface to move over, less obstacles, per last of the classics put together. But if you can teach a cow, or a calf on he way, and greater advantages in locomotion. We should not be surprised, too, if the Martialists had got greatly abea of. Ou sin respect of anxigating the air. We know that the density of the least of the other haps, in the way, and greater advantages in locomotion. We should not be surprised, too, if the Martialists had got greatly abea of. Ou sin respect of anxigating the air. We know that the density of the least of the classics put together. But if you can teach a calf anything, which I doubt, Latin as well as English. There were ten cows which I had to escort to and from pasture night and morning. To the least the years of the work. I am now feeding to twelve cows two basels of wheat bran mixed with one bushels of wheat bran mixed with one bushels of the fresh vigor, and, in pursuance with the density of the planet, as a whole, is less than three-fourths of that of our earth; so that if the strength of the day where the carely bird that catches the worm. Early, not only in the morning, but in the cast one and will. We entreat all down. I am now feeding to twelve cows two basels of wheat bran mixed with one bushels of wheat the early bird that catches the worm. Early, not only in the morning, but in the carely bird that catches the worm. Early, not only in the morning, but in the carely bird that catches the worm. Early, not only in the carely bird that catches the worm. If no new discovery were to be made for the carely bird that catches the worm. If no new discovery were to be made for the carely bird that catches the worm. If no new discovery were to be made for the carely bird that catches the worm. If no new discovery we the substance of the planet, are, on the whole, intrinsically lighter than those of Man's body. But, if the Martialists' bodies are intrinsically lighter, and their atmos-phere a good deal heavier than ours, ærial

difficulty of building durable structures is generally got over in our own tropics, where earthquakes are so common—by not building durable structures at all, but only very light and fragile ones—a process which would, of course, be much easier where all the materials were lighter and all motion swifter than the royal three-ply silk stick more sunshine at one place than another the game of push and gore, until one gave up. Those beams upon our sheets of water lifts up layer after layer into the atmosphere, those beams upon our sheets of water lifts up layer after layer into the atmosphere, and hoists whole rivers from their beds, only to drop them again in snows upon the hills, or in fattening showers upon the plaints. Let but the air drink in a little receive the trees early in the spring. Sandy loan soils are best suited for an orchard; and out of it springs the tempest of water lifts up layer after layer into the atmosphere, and hoists whole rivers from their beds, only to drop them again in snows upon the hills, or in fattening showers upon the plaints. Let but the air drink in a little receive the trees early in the spring. Sandy loan soils are best suited for an orchard; and out of it springs the tempest of water lifts up layer after layer into the atmosphere, and hoists whole rivers from their beds, only to drop them again in snows upon the hills, or in fattening showers upon the spring. The Orchard. all motion swifter than with us. In a should happen to get in front of the most word, it seems likely that the distinctive royal double-and-twisted golden rod, when feature of life on Mars is velocity; that the creatures there live faster, move oftener, undergo more change—just as the planet itself passes through a far vaster orbit (though its orbital velocity is not quite so great as ours) in one of the Martial years. But that such a characteristic would tend to quicken the progress of the mind and of discovery is doubtful.

With us civilization has never advanced shall probably never know what the effect

from other considerations that physically, at least, the life there has far more In the case of the planet Mars, and in rapid change in it than we can easily conceive; but whether that has developed or arrested the mental and moral progress of the Martialists is a question of which the elements are altogether too conjectural for serious discussion .- London Spectator.

Home Politeness in Little Folks.

Parents, as soon as your little ones be

"Thur wisdom, early sought and galned, In age will give thee rest; Oh, then improve the morn of life, To make its evening blest."

gin to totter about, and speak, say lisping ly, "ma," and "pa," that very instant teach them courtesy, good manners, to use cor-rect language, chaste, delicate, refined avoiding everything vulgar, uncouth, clownish, indelicate or ungrammatical. Even baby lips can be taught refinement, courtesy, politeness of manners, things spite of this, it has not much less land than the earth, a much less proportion of its surface being occupied with water than of our clobe, its seas are of the green true. our globe; its seas are of the general type of the Baltic and Mediterranean, for the most part narrow, straggling, inland seas; dressed to children old enough to underchild can comprehend one word its educacalled to officiate as professor of languages would say to him that until he becomes further advanced he must call a horse a "horsey," and a dog a "bow-wow," and that for the present he will address his maternal parent as his "mudder?" This seems sufficiently risiculous; but this learner: it would teach him pronunciations which he must unlearn as laboriously as he learned them. You would, thus, in fact, double his task. The folly and injustice are the same when you teach a lit-tle child to speak a distorted, mangled, burlesque language, of which it beco ashamed when older, and tries to unlearn

Little folks should be taught correct of the tongue should pass without correc-

We advise all young people to acquire in early life the habit of using good language, both in speaking and in writing and to abaudon forever the use of slang words and phrases, else the unfortunate victim of neglected education is very probably doomed to talk slang for life. The first infantile lisping should be marked with critical precision. Everything vile, vulgar, clownish, impolite, un-couth, ungrammatical, immoral, and all slang phrases, should be sedulously avoided, and all things true, honest, just, pure, lovely, inculcated. All habits, once formed, are formed foreser!

" Fill first the bushel with the wheat,

With wisdom—food for souls to eat; Then chaff, the fiction of the day, Will find no place, and blow away." Parents, the habits formed now in the hearts of your off spring will be life-long. It was a principle with the old Jesuitsthat if they might have the first seven years of a child's life, they cared not who had the after training.

over and over the same lessons for the first

tion of disrespect or disobedience you al-low in your presence. Let your children by a lump from the sugar-bowl. If you o, it will by no means be the " beginning of the end." As they advance in years, encourage them to join pleasantly, but always modestly, in the family conversation around the table. Let the meal-time be one of the most cheerful and heavenly hours of the day. Come to the festive board with something good to communi-cate, edifying, administering grace to those present—that every thought, word and deed may be "apples of gold in pictures of silver." The table spread with heaven's choice bounties is the appropriate place to inculcate order, sobriety, courtesy, politeness of manners, gentlemanly deportment, strict temperance in all things.

The family is a little book, The parents are the cover, that Protecting beauty gives." -" Apples of Gold."

Teaching Cows Latin.

fine their social position. In this case, Decem could "lick" Novem, and Novem

kind of biting there is not excepting the come relaxed before those which support bite of fleas. But in cow society there is the head; and the latter before those nothing of this detraction in order to which maintain the body in an erect positrait in cows .- Charles D. Warner, in Work

An Electric Joke.

men, opened out at Fourth and Market streets, with his dial for testing how much orture his voluntary victims could stand. To stimulate trade, he kept a standing offer to pay \$5 to whoever could stand boy stood it wonderfully. The operator turned the crank faster, and asked the boy how it felt. The boy said it did not feel at all. The man thought something must be the matter, and commenced an stand and imitate it, is detestable. The elaborate tightening up of the screws, and parents must remember that when the revolutions, which ought to have produ tion is begun. The mother, especially, is a current sufficient to kill the boy; still he laughingly assured the fellow that he did in the domestic university. But who, in not experience the slightest sensation. teaching a foreigner the English language. Out of patience, the man demanded to would say to him that until he becomes see his hands, and then the secret was explained. The boy belonged to the tele-graph office, and had picked up one of the pieces of insulated wire now being put up nside the office, and had passed it up one sleeve of his coat, around his shoulders, is not all-it would be unjust to the and down the other sleeve, and then uncovered the ends of the wire in each hand. Thus armed, he had gone to the electric man; of course, the uncovered ends of the wire pressed against the me-tallic handles, presented a better medium than the boy's body, and the current sim ply passed to them and along the insulated wire around the boy's body, without touching him. That "electrician was very mad, and all the more so as the crowd drawn language as early as possible; not a slip together thought it a good joke, and took of the tongue should pass without corrective boy's part. The man was so laughed at that he left town.-Scientific American.

A Knowledge of Common Things.

Ir is not a knowledge of abstruce and difficult questions that we need, so much as a familiarity with the every-day affairs person's mouth. They are the exceptions, go vastly higher now than he was com- plowing comes. pelled to do in the time of Plato and other philosophers, about whom our learned should follow in quick succession, and it In teaching your children these little sweet courtesies of life, you must repeat fact, Liebig says: "Our children have into the ground at the carliest possible over and over the same lessons for the first few years. It requires line upon line, and be not discouraged, even after seventy times repetition. The reward will come at length, and you rejoice to see the little child you have taught so laboriously acting voluntarily on principles you have instilled, requiring no prompting or correction for courses, he has become habit.

more accurate perception and understanding of nature and natural phenomena than Plato had, and they can laugh at the mistakes made by Pliny." But there is no denying the fact that a knowledge of common things is sadly needed in every common things is sadly needed in ev more accurate perception and understand- moment. Corn, of course, being a tropstilled, requiring no prompting or correction, for courtesy has become habit.

In no place is the distinction between the refined and the ill-bred more marked at than at the table. If your children are not early taught pollteness here, you must prepare yourselves and them for a thousand mortifications in future life, and must prepare yourselves and them for a thousand mortifications in future life, and must prepare yourselves and them for a thousand mortifications in future life, and must prepare yourselves and them for a thousand mortifications in future life, and must prepare yourselves and them for a thousand mortifications in future life, and must prepare yourselves and them for a thousand mortifications in future life, and must be known to the veriest tyro in move and mortifications in future life, and must be known to the veriest tyro in move and mortifications in future life, and must be known to the veriest tyro in move and mortifications in future life, and must be known to the veriest tyro in move and mortifications in future life, and must be known to the veriest tyro in seal mortifications in future life, and must be known to the veriest tyro in the laugh on us. We are led to these reflections by the occasional receipt of left.

In no place is the distinction between the refined and the ill-bred more marked in the laugh on us. We are led to these reflections by the occasional receipt of left.

If they were all in, in the laitinude of New bottlens of an Australian newspaper makes the following suggestions in relation to raising corn in time of drought. At times the weather is so parching at the period when corn is coming into flower, that the potential tyro the work that is to follow. Even the treat the polatons—which are to be left in the ground until October—are almost invariable politic politi may and should be taught the same lesson of respectful behavior. It is a duty which God requires of you, and He holds you responsible for every unchecked manifestation of disrespect or disobedience you allow the sponsible? What are the constituents of water? Can it be rendered a second or third time, I would plant seed in setting out time comes.

Almost the only crop that is benefitted by delay is the carrot. The seed of this second may come to the rescue, and the second may come to the second or third time.

I once taught my cows Latin. I don't not do, mean that I taught them to read it, for it What

phere a good deal heavier than ours, serial transit may be a very easy matter to them, and it is quite conceivable that their normal mode of locomotion may be through the air.

Again, if we are right in supposing the currents of sir in Mars to be of more than usual violence, while the solidifying force of friction which resists them is much analler than here, it may be a reasonable inference that "natural selection" has already weeded out the loftier growing trees, which would stand less chance in encounters with hurricanes than our own; and it is not improbable that the tendency of the greater facilities for motion, and the greater f THE greatest of physical paradoxes is Home. We should be disposed to conjecture that it is a world in which speed is greater and of more importance than even on the earth; and, if so, it seems likely enough that the difficulty we have supposed as to the solidity of walls exposed to the atmospheric currents of Mars is got over as the difficulty of building durable structures is generally got over in our own tropics,

bars "when there were six or eight of them, or into the stable, the math buck, the made by cases, but rejoices in their sweetness, and blesses the useful light. Yet a few of those pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground, and the bundles in pair after pair being put on until the pile is a high as a man cau reach. In these ground and the difficulty of the difficulty of building on a treat pair being put on until the pile is a high as a man cau reach. In these ground and the cause as a settled them and there, and once

How We Go to Sleep.

With us civilization has never advanced rapidly till it had become tame and, so to say, plodding, and the excitements of local change, at least, had become few. But the great seasonal changes of Mars—especially in the southern hemisphere, where the winter and summer are aggravated by the enormously increased distance of the enormously increased distance of the enormously increased distance of the sun at that period when his rays are least direct, and his nearness at that period when his rays are most direct,—contribute to confirm the impression we have drawn

secure the first place at the crib, or the tion. There are, however, many excepfurther stall in the stable. If the question arises, the cows turn in, horns and all, and settle it with one square fight, and that ends it. I have often admired this with their chins quietly resting on their of nearly one-third of all the fires which chests, but yet quietly grasping their occur in American cities.

To cure scratches on h he special senses, that of sight is first lost, the crossing of the eyelids setting up a bar-rier between the retina and the external Some weeks ago, one of those illegiti-mate sons of science, the vagrant electric if they have been removed by the surgeon, or cannot be closed through disease—the light is still the first sense whose function is abolished. Some animals, as the hare, do not shut their eyes when asleep; and in cases of somnambulism the as much electric fluid as his machine would eyes remain open, although the sense of furnish. One day, a boy presented himself and announced that he had come to win that \$5. The man handed him the "handles" and started the machine. The much lessened. Taste is the first to dismuch lessened. Taste is the first to dismuch lessened. appear, and then smell; hearing follows; and touch is the most persistent of the and touch is the most persistent of the senses. So, conversely, a person is most should no more strive to get it than they easily awakened by touch, next in order by sound, and then by smell.

> "Take Time by the Forelock." IF there is any motto that should be always before the mind of the farmer, from the first opening of the spring until the summer work is well under way, it is the one we have placed at the head of this

management. The writer himself has paid full price for his education in this matter. and as he has mended his ways, he has seen his chances for success materially brighten. The seasons in their ceaseless round wait for no man's convenience Drouth, and early frost, stand waiting to shrivel the hopes, and to cut off the promise of all sluggards. Nature loves a bold farmer, and holds her best favors at the command of him "who speaks first."

In the large four by three feet apart. The larch is planted three feet apart each way in England; in five and one-half years, one-half is cut for poles for hurdle-ience; punctuality and system, which have so is cut for posts. The remaining trees, much to do with good farming—insist on thus left six feet apart, are allowed to comclose observance, and punish the procrasinator with an overwheming conft The only safe plan is to be beforehand with all work. Our seasons are never too long, and the enormous amount of work of life. The number of persons who attain to eminence by the extent of their ining out of the first load of manure, and formation is necessarily small. Their the planting of the last seed, is enough to heads tower above others, like peaks of appall any man who does not know what mountains, and their names are in every constant and systematic work will accomplish. As soon as the land is dry and not the rule. It will be observed in enough to allow teams to go upon it with studying the history of the world, that the great mass of people, who represent the valleys, have been raised by the progress of discovery and invention, until the common man has, at the present age, attained a height that was formerly considered in the scholars of the scholars and invention and every tained a height that was formerly considered in the scholars of the scholars and invention and every tained a height that was formerly considered in the scholars of the scholars and invention and invention out injury, the manure which has not been hauled out during the whitch has not been hauled out during the winter, must be set going with all dispatch, and spread at once. There will be a material loss at this season from evaporation, and every tained a height that was formerly considered. ered inaccessible, except to the scholars soil will add to its efficiency. It may by profession. The man who excels must safely be left to lie until the time for

low in your presence. Let your children learn to sit quietly until all older than themselves are helped, and do not begin compromising with some little insurgent than the make a compromising with some little insurgent the maker a compromising with some little insurgent through a long list of questions, upon subjects that ought to be common property with every one who has attended public school.

April, and should be harrowed once a week until planting time. With this preparation its cultivation will be We think that teachers and professors commit the mistake of siming their instruction too high. They take it for granted that their pupils know more than they really do, and omit just the common they really do, and omit just the common that it is just here that ninety-nine farmers of others in butter, yet, as a rule, the West should be proud of its existence.—

From the West should be proud of its existence.—

From the West should be proud of its existence.—

From the Northwestern Christian Advocate.

There is no doubt a difference in the quality of milk in difference cows, some being rich in caseine or cheese, and that their pupils know more than they really do, and omit just the common they really do. bottom; we can then add to the structure as much as we please, and those who have the leisure and the means may go up as high as their inclinations lead them. Arithmetic must precede algebra, mineral orgy properly introduces geology, spelling goes before composition; things ought to be taken in their matural order, and jumping over the "Slough of Despond," or tunnelling the "Hill of Difficulty." will be assembled to the commencement of mowing. It is and such as is produced by the heaviest feed.

York friend, containing the missing rings. The letter had been entrusted to the uncle, and he had put it in his pocket, and from such as corn, wheat, rye, shorts, fed to twelve cows, pound for pound, did not make as much milk as wheat bran, into nine quarts a day, and I have no doubt the farmers who cut their grass too late, that for a time this would invariably be the result, yet I should not dare to consider the missing rings. The letter had been entrusted to the uncle, and he had put it in his pocket, and from the acrefully tried experiment, which I made last winter, I found that heavy feed, such as corn, wheat, rye, shorts, fed to twelve cows, pound for pound, did not make as much milk as wheat bran, into nine quarts a day, and I have no doubt the farmers who cut their grass too late, that for a time this would invariably be the result, yet I should not dare the product of the individual time in the product of the land will suffer much less than from the land will suffer much less than from the feed.

To average the heaviest of the uncle, and he had put it in his pocket, and from the comment, which I made last winter, I found that heavy feed, such as corn, wheat, rye, shorts, fed to twelve cows, pound for pound, did not make as much more valuable than that receptacle it passed into a make as much more valuable.

To average the heaviest of the uncle, and he had put it in his pocket, and he had put it in his pocket.

The

early harvesting. So, "take time by the by cows in milk, could be warmed. If forelock" in everything.—Hearth and taken into the system while at a very low

The soil for a new orchard ought to be thoroughly prepared before the trees are planted. If the land has been drained and loam soils are best suited for an orchard; for being situated on a porous sub-soil, tentive soils, draining is indispensable. Drains in orchards are liable to be obroots will be kept out of the drains, but that water will percolate through the tiles. Large tiles are better adapted for draining orchards than small ones, as they are less

USEFUL AND SUGGESTIVE.

Ir you wish to keep your enemies from ing any harm of you, don't let your

To cure scratches on horses, wash the legs with warm, strong soap suds, and then with beef brine. It is said that two

applications will cure the worst case. To Make FURNITUR OIL -Take lingeed oil, put it into a glazed pipkin with as much aikanet root as it will cover. Let it boil gently, and it will become of a strong red color; when cool, it will be fit for use. THE FORMIDABLE TRIO.—Poverty, ignominy and death are accounted the most formidable trio of mortal calamities. Let lightly. In washing laces, put 12 drops in us counteract their influence by their only warm suds. To clean silver, mix two teaus counteract their influence by their only proper antidotes, occupation, virtue and spoonfuls of ammonia in a quart of hot

"THE last word" is the most dang would struggle to get possession of a lighted bomshell.

Asa Baldwin, Chautauqua County, N. Y., writes the Rural New Yorker that fifty years ago a very lousy cow of his ate ten or twelve onions, and in fifteen hours afterwards the lice had disappeared. He has tried the same remedy many times since, with the same result in each case.

A disregard of its teachings is the rock on which young farmers are most apt to split. Older ones have learned its value lice; they will die as soon as the alcohol. In every case, rinse off the ammonia with split. Older ones have learned its value by costly experience, or else have adopted "bad luck" as their excuse for their bad management. The writer himself has paid full price for his education in this matter, thing ye ever heard tell of for the heads of

PLANTING FOREST TREES -For the purpose of making tall, limbless trees valunble for timber, close planting is advisa-ble—say four by three feet apart. The one-half is cut for poles for hurdle-tence; The laws of order, too-the rules of and in ten years one-half of the remainder plete their growth.-Hearth and Home. HORSERADISH FOR ANIMALS -An ex

> change says: Horseradish is an excellent condiment to mix with the food of cows to give them an appetite, and make them

GRAFTING .- It is an old idea that graftwounds. We prefer some form of crowngrafting to the usually practiced cleft-

Best Milk-Producing Food.

T. L. HART, of Cornwall, Conn., has written an article for the Germantown

temperature the process of digestion will be retarded until the temperature of the

assigned for a young child; the why and wherefore very likely he does not know.

He probably does not know that the milk from a farrow cow is one-third heavier and one-third richer in caseine than heavier and one-third richer in caseine than the like. Persons whose nervous systems are and the like. the bore. Some drainers seal up the joints on equal parts (in pounds) of oats, wheat with cement, and hold that by this means bran, Indian corn and the best of hay and

experiments, we shall not know for a certain'y the quality of food that will, when

Roots, especially carrots, increase the flow of milk and of the best quality, and

tend to keep the cow in good health. Apples will increase the quantity nearly as much as turnips, and of much better

In making milk there is nothing mor important than good early cut hay. With-out this it may be doubted whether milk

can be made with profit. Domestic Use of Aqua Ammonia.

A "HOUSEKEEPER" in the Michigan Farmer, says: For washing paint, put a tablespoonful in a quart of moderately hot soap suds, put in your silver and wash it, using an old mail brush or tooth brush for the purpose. For cleaning hair brushes, etc., simply shake the brushes up and down in a mixture of one tenspoonful of ammonia to one pint of hot water; when they are cleaned, rinse them in cold water and stand them in the wini or in a hot place to dry. For washing finger marks om looking glasses or windows, put a few drops of ammonia on a moist rag and make quick work of it. If you wish your house plants to flourish, put a few drops DEATH TO LICE.—A correspondent writes to the American Farmer's Institute Cleb. "To kill like thereadly wat them ing effects of a bath. Nothing is better pure water. Aqua ammonia should be purchased by the pound or half pound, as druggists ask an extortionate price per

A Great Business House.

The tendency of trade from Lake to State street, in this city, is apparently something very wonderful. Only five years ago the great crowd and rush were on Lake street; and State street, down town, was as quiet as a country village. To-day the policeman stands on duty at the crossing, and the crowd surges by from morning until night.
But strange as this wonderful tran tion may appear to one who only visits Chi-cago occasionally, the reason for it is quite apparent to all who have watched the pro-gress of events. The turning of the tide began with the removal of the great dry goods house of Field, Leiter & Co. These gentle men, foreseeing that trade would ultimately drift up-town, as it has done in New York. sleek and thrifty. It should be fed freely to all animals that are not well, and it will be of great service to working oxen troubled with heat. If given to cows in doses of a pint a day, mixed with potatoes or bran, it will prevent or relieve the cows of the disease called cake in the bag. Few animals will refuse to eat it, and some will eat of it greedily, as much as a half peck at a time.

men, foreseeing that trade would ultimately drift up-town, as it has done in New York, were among the first to select State screet as the scene of their future operations. The magnificent marble store they now occupy was built expressly for them. It is perfectly after the scene of their future operations. The magnificent marble store they now occupy was built expressly for them. It is perfectly after the scene of their future operations. The magnificent marble store they now occupy was built expressly for them. It is perfectly after the scene of their future operations. The magnificent marble store they now occupy was built expressly for them. It is perfectly after the scene of their future operations. The magnificent marble store they now occupy was built expressly for them. It is perfectly after the scene of their future operations. The magnificent marble store they now occupy was built expressly for them. It is perfectly after the countries of their future operations. The magnificent marble store they now occupy was built expressly for them. It is perfectly after the scene of their future operations. The magnificent marble store they now occupy was built expressly for them. It is perfectly after the scene of their future operations. made use of so vast a building. The marble building itself was sufficient to create a furor Graffing.—It is an old idea that grafting cannot be done after the leaves have started into growth. It often happens that during the busy spring season the farmer or fruit-grower cannot attend to the setting of all his cions before the trees begin their growth, and concludes that it is of no use to set grafts so late. Trees may be grafted when in full leaf if cions have been cut before the buds start, and the motion of the reasissance, of Vermont marble, a hundred and one feet of frontage on State street, and one hundred and fifty-five on Washington, six stories in height, it marked an ora in the building history of Chicago; and strangers visiting the city go to see it with the same degree of curiosity that leads them to inspect the lake and river tunnels. have been cut before the buds start, and preserved in a dormant condition. In working the trees while vegetation is active, care must be taken not to make bad brought their trade with them. Their vast wholesale trade recepts avery eith and harder to the same degree of curiosity that leads the most of the same degree of curiosity the same degree of curiosity the same degree of cur brought their trade with them. Their vasi wholesale trade reaches every city and hamlet of the Northwest. The country merchant finds here everything his customer calls for,

Strangers who visit Chicago to make purchases almost invariably go direct to Field, Leiter & Co.'s, it being not only the oldest, but the best advertised house of note. Very the best advertised house of note. Very few of the readers of the Advocate who have visited Chicago during the last two years, have gone away without looking through this palatial store. We have not had sufficient space to give a full description of it, and therefore may return to the subject again. In the meantime we heartily commend the establishment to all. It is a great hadness house. lishment to all. It is a great business house, managed with strict honor and integrity, and the West should be proud of its existence.—
From the Northwestern Christian Advocate.

they really do, and omit just the common things about which we are complaining that there is too much ignorance. If we begin at the top, and raise the roof of a house, that does not help the foundation. It is better to see first to the cellar and basement, and build up strongly from the bottom; we can then add to the structure bottom; we can then add to the structure of mowing. It is bottom; we can then add to the structure of mowing. It is and such as is produced by the heaviest fixed.

In things about which we are complaining that there that ninety-nine farmers out of a hundred are at fault. They wait not only until the grass is in full blossom, but even until the seed is nearly ripe, whereas the first appearance of bloom over the whole field should be the signal for the commencement of mowing. It is and such as is produced by the heaviest fixed.

York, left her finger rings upon her washbuter, yet, as a rule, the milk from the stand, and not hearing from her friends will be in a great measure what it is made by the feed of the cow. The milk from the same cows may be varied by feed from 80, by the lactometer, up to 115 degrees, the highest number being the missing rings.

York, left her finger rings upon her washbuter, yet, as a rule, the milk will be in a great measure what it is made by the feed of the cow. The milk from the same cows may be varied by feed from 80, by the lactometer, up to 115 degrees, the highest number being the best, and that of others in butter, yet, as a rule, the milk the milk from the same cows may be varied by feed from 80, by the lactometer, up to 115 degrees, the highest number being the best, and that there that ninety-nine farmers out of a hundred are at fault. They wait is just her that ninety-nine farmers out of a hundred are at fault. They wait is just her that ninety-nine farmers out of a hundred are at fault. They wait is just her that ninety-nine farmers out of a hundred are at fault. They wait is just her that ninety-nine farmers out of a hundred are at fault. They wait i

tunneling the "Hill of Difficulty," will three-fourths probably do so because they not do.

What we want is evidently not so much an increase of knowledge as the universal work.

The larmers who cut their grass too late, that for a time this would invariably be three-fourths probably do so because they the result, yet I should not dare to continue for any considerable length of time to feed my cows upon wheat bran alone, an increase of knowledge as the universal work. vate the feeble system, thus enabling it to defy the elemental causes of disease. Hence their efficacy as a protective medicine, in districts where the air and water are impure. The weakest and most susceptible organ rendered proof against all malarious disorder by taking one or two doses daily as a pre-

PRUSSING'S White Wine Vinegar is a most superb article for table use. Warranted pure. DECIDEDLY the best remedy that has eve erop that will bear early planting the ben-efit of the full season; it will be none too long at the best, and the best preventive against drouth is well-developed roots feed should be fed dry or wet. There is no

to our friends. WE should not hesitate to recommend to any friend of ours, Parsons' Purgative Pills; they are scientifically prepared, and are adapt-ed to all the purposes of a good purgative

In warming this water digestion is not only retarded, but there will be a loss of a certain amount of food, which, like fuel, is consumed in keeping up the heat of the body; and this accounts for the fact that a herd of certain amount of certain amount of the body; and this accounts for the fact that a herd of certain amount of the fact that a herd of certain amount of the fact that a herd of certain a new settlement, on being asked to contribute toward inclosing and ornamenting the village cemetery, very coolly remarked that if he filled it he thought he should do his part.

THE LITTLE CORPORAL for May is an excellent number, full of pleasing and instructive reading matter for boys and girls, and older people who have young hearts. Terms \$1.50 a year. Send stamp for specimen number and Premium List to JOHN S. MILLER, Publisher, Chicago, III

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It is amusing that the feeble should totter, with incertain steps, over the face of the earth, in danger every day of falling victims to the morbid in nces by which we are all surrounded, when tested and proven vegetable tonic, capable of en dowing them with the vigor they need, is procura ble in every city, town and settlement. It migh reasonably be thought that after the twelve years' experience which the world has had of Hostetter's Bitters, all would know that its effect is to preven

that from a new milch cow, and therefore relaxed are the first to succumb to these distemnot as well adapted to the wants of the pers. Brace up the physical energies, then, with child, nor does the mother understand that the cause of the child's illness is owing to some improper food eaten by the cow. If I was desirous of making a given amount of milk the best adapted to the greatest degmas will at least admit that a tonic and alterastructed by the fibrous roots of the trees of milk the best adapted to the greatest degmas will at least admit that a tonic and alterating the joints of the tiles, and filling the bore. Some drainers seal up the joints of number of children, I would feed the cows tive, compounded of approved herbs, roots and the bore. Some drainers seal up the joints on equal parts (in pounds) of oats, wheat thousands invites a trial of its virtues. Vigor is the thing most needed in these cases a as well as in dyspepsia and nervous affections, and

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are all sold, and your further supply of three dozen in
received. I think I shall need more score, as they are I
good demand and highly praced by sufferers from indige
tion, dyspepsia and three complished.

Yours, very respectfully.

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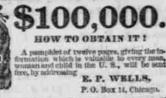
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